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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/771,942	01/30/2001	Chiyoshige Nakazawa	249-161	9698

7590 09/25/2002

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EXAMINER

NGHIEM, MICHAEL P

ART UNIT	PAPER NUMBER
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2861

DATE MAILED: 09/25/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

726,942
09/745,642

Applicant(s)

GAUDIANA ET AL.

Examiner

Michael P Nghiem

Art Unit

2861

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 July 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 22-42 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 41 and 42 is/are allowed.
- 6) ☒ Claim(s) 22-25, 27-30, 32-35 and 40 is/are rejected.
- 7) ☒ Claim(s) 26, 31 and 36-39 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 January 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 8.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

The Amendment filed July 9, 2002 has been acknowledged.

Withdrawal of Allowability

1. The indicated allowability of claims 25, 28, 29, 32, 34, and 35 are withdrawn in view of the newly discovered reference(s) to Okubo et al. (US 6,106,112). Rejections based on the newly cited reference(s) follow.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the protection guide surrounding the first detection projection (claim 35) must be shown or the feature(s) cancelled from the claim(s). No new matter should be entered.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 22-25, 27-30, 32-35, and 40 are rejected under 35 U.S.C. 102(e) as being anticipated by Okubo et al. (US 6,106,112).

Okubo et al. discloses all the claimed features of the invention including:

- an ink cartridge (Fig. 1) comprising:

- a cartridge main body (1) having a first case (lower case of 1, Fig. 1) and a second case (upper case of 1 separated from lower case by 15) joined to the first case (Fig. 1);

- first and second ink bags (22u, 22l) each comprising a bag main body (main body of 22's) storing ink and an outlet (23u, 23l) through which the ink can be discharged from the bag main body, the first and second ink bags being housed by the first case and the second case (Fig. 1), wherein when the first case and the second case are joined, the outlets of the first and second ink bags are pressed against each other by the first case and the second case (outlets are locked, one on top of the other, Fig. 3);

- the first case comprises a bottom plate portion (2) and a side plate portion(4), the first case having an opening (opening of lower case, Fig. 1) on a top thereof for housing the first and second ink bags (Fig. 1), and wherein the second case covers the opening of the first case (upper case covers lower case, Fig. 1);

- a partition plate (15) attached to a predetermined position of the first case, said partition plate separating compartments housing the first ink bag and the second ink bag respectively (Fig. 1);

- the partition plate is detachable in a direction substantially perpendicular to the bottom plate portion along the side plate portion (via 14 and 10), and wherein each of the first case and the second case comprises a partition plate clamp face such that the partition plate is clamped by the partition plate clamp face (39) of the first case and the partition plate clamp face of the second case (39) for defining the position of the partition plate (Fig. 8);

- each of the first case and the second case comprises an ink outlet clamp face (24u, 24l) such that the ink outlets are clamped by the ink outlet clamp faces (Fig. 3) for defining the positions of the ink outlets, and wherein at least one of the ink outlet clamp faces is elastically displaceable (made of resin);

- each of the ink outlets comprises a contact portion in contact with each other and a clamp portion (11) clamping the partition plate with one another (Fig. 1);

- a first detection plate (18l) attached to the first ink bag, and having a first detection projection (19l) extended in a direction substantially perpendicular to the bottom plate portion (Fig. 1), the first detection projection moving in the direction

substantially perpendicular to the bottom plate portion and projecting from the cartridge main body in response to the consumption of ink in the first bag main body (Fig. 1), and a second detection plate (18u) attached to the second ink bag, and having a second detection projection (19u) extended in the direction substantially perpendicular to the bottom plate portion, the second detection plate moving in the direction substantially perpendicular to the bottom plate portion and projecting from the cartridge main body in response to the consumption of ink in the second bag main body, wherein the first and second detection projections differ from each other at least in shape or color (Fig. 1);

- the first case forms a first ink cartridge (lower case containing 22l) for housing the first ink bag (22l) and the second case forms a second ink cartridge (upper case containing 22u) for housing the second ink bag (22u), further comprising a joint mechanism (portion where ink cartridges are joined including walls of 1) for detachably joining the first ink cartridge and the second ink cartridge (Fig. 1);

- the joint mechanism has snap-fit parts (27, 11) formed in a side portion of the first ink cartridge and in a side portion of the second ink cartridge (Fig. 7);

- the second ink cartridge comprises a recess (recess above 15, Fig. 1) into which the first ink cartridge can be fitted in the thickness direction (Fig. 1);

- the first ink cartridge comprises a side portion with a protection guide (3) surrounding the first detection projection.

Allowable Subject Matter

4. Claims 26, 31, and 36-39 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. Claims 41 and 42 are allowed.

Reasons For Allowance

6. The combination as claimed wherein a waste-ink holding member for storing waste ink poured therein from the outside thereof, said waste-ink holding member attached to the second case (claims 25, 31) or the length dimension of each detection plate is a value within the range of 0.4 to 0.8 times the length dimension of each ink bag (claims 36, 37) or the waste-ink holding member is placed in the cartridge having the smallest value resulting from dividing a volume of ink in the ink bag housed in each ink cartridge by the number of nozzles of the ink nozzle group corresponding to the ink bag (claim 41) is not disclosed, suggested, or made obvious by the prior arts of record.

Response to Arguments

7. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

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Contact Information

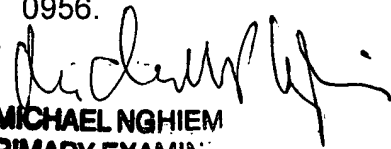
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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Nghiem whose telephone number is (703) 306-3445. The examiner can normally be reached on M-H from 6:30AM – 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Hilten can be reached at (703) 308-0719. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7724 for regular communications and (703) 308-5841 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.


MICHAEL NGHIEM
PRIMARY EXAMINER

Michael Nghiem

September 23, 2002